SYSTEM AND METHOD FOR
POSITIONING PULSES IN TIME
USING A CODE THAT PROVIDES SPECTRAL SHAPING

ABSTRACT OF THE DISCLOSURE

5   A system, method and computer program product for positioning pulses, including positioning pulses within a specified time layout according to one or more codes to produce a pulse train having one or more predefined spectral characteristics where a difference in time position between adjacent pulses positioned to produce a spectral characteristic differs from another difference in time position between other adjacent pulses positioned to produce the

10   spectral characteristic. The present invention may include shaping a code spectrum according to a spectral template in order to preserve a pre-defined code characteristic. A pre-defined code characteristic can include desirable correlation, or spectral properties. A transmitter incorporating the present invention can avoid transmitting at a particular frequency. Similarly, a receiver can avoid interference with a signal transmitting at a particular

15   frequency. A radar system, can avoid a radar jammer attempting to jam a particular frequency.